

Title (en)

Needle selection device for circular knitting machines for manufacturing socks, stockings or the like.

Title (de)

Nadelauswahlvorrichtung für Rundstrickmaschinen für die Herstellung von Socken, Strümpfen und dergleichen.

Title (fr)

Dispositif de sélection d'aiguilles pour des métiers à tricoter circulaires pour la fabrication de chaussettes, bas ou similaires.

Publication

**EP 0636725 A3 19950628 (EN)**

Application

**EP 94110745 A 19940711**

Priority

IT MI931711 A 19930729

Abstract (en)

[origin: EP0636725A2] The needle selection device for circular knitting machines has multiple selectors arranged in the axial grooves formed in the skirt of the needle cylinder, each selector being arranged below a needle and oscillatable in a radial plane of the needle cylinder from an active position, in which it protrudes radially from its groove with a butt, for the engagement of the butt with cams for actuating the selectors arranged around the needle cylinder to move the selectors along their groove in the needle cylinder so as to activate the overlying needle, to an inactive position, in which the selector is sunk in its groove in the needle cylinder so that it does not interfere with the selector actuation cams. The device has selector extraction means to transfer the selectors from the inactive position to the active position and selection means to transfer the selectors from the active position to the inactive position or to keep them in the active position. Each selector is provided with a selection element protruding radially from the grooves of the needle cylinder and oscillatable in the plane of arrangement of its selector. The selection element is made of a material that can be magnetized, and an electromagnet is provided for magnetizing the selection element and magnetic means interact with the selection element after its magnetization to make it oscillate into an idle position, in which the selection element engages a selector sinker cam which laterally faces the needle cylinder, or into an active position, wherein the selection element does not interfere with the sinker cam to keep its selector in the active position. <IMAGE>

IPC 1-7

**D04B 15/78**

IPC 8 full level

**D04B 9/46** (2006.01); **D04B 15/14** (2006.01); **D04B 15/24** (2006.01); **D04B 15/78** (2006.01); **D04B 15/82** (2006.01)

CPC (source: EP US)

**D04B 15/78** (2013.01 - EP US)

Citation (search report)

- [A] EP 0189790 A2 19860806 - SULZER MORAT GMBH [DE]
- [A] EP 0529411 A1 19930303 - SFIM SRL [IT]
- [A] DE 2439161 A1 19750227 - PRECISION FUKUHARA WORKS LTD

Cited by

CN104727013A; CN101914834A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0636725 A2 19950201**; **EP 0636725 A3 19950628**; **EP 0636725 B1 19971119**; CZ 180994 A3 19950215; DE 69406858 D1 19980102; DE 69406858 T2 19980610; IT 1272494 B 19970623; IT MI931711 A0 19930729; IT MI931711 A1 19950129; JP H0770892 A 19950314; US 5425252 A 19950620

DOCDB simple family (application)

**EP 94110745 A 19940711**; CZ 180994 A 19940728; DE 69406858 T 19940711; IT MI931711 A 19930729; JP 17667294 A 19940728; US 27489094 A 19940714